FIGURE 1

Alpha globin sequence:

45	06	135	180	225	270	315	360	405	
O 0€ O 0€	6 9 €	₽SE	AAG Lys	Asp Asp	AAG Lys		88 Ala	GTG Val	
5 5	CTG Leu	88	36 G€	Asp Asp	£ Eg	70 Sy	CCT Pro	¥ ¥	
Ş eg	Ala GO	Ple T	S ₹	GTG Val	8 8 8	Sec H≅	A P	Ser	
Ala GO	GAG Glu	TAC	9 8 }	CAC	SE	AGC	TTC Ple	GTG Val	
AAG Lys	AB 88	¥ 8	AAG Lys	A da	다. Fe	E C	G 69	Ser	
CTC Val	GGT Gly	AAG Lys	GTT Val	GTG Val	As G	CTC Let	Ala CC	GCT Ala	
AAC	TAT	후	8 g	8 88 ₽	Ser Ser	AAG	8 5	CTG Lee	
¥ ¥ €	8 3	量を	₩ 80 8	AS AC	E 53		5 3	Phe Phe	3E 2
AAG Lys	8 €	88	TCT Ser	重数	S &	AAC	₽SE	AAG	FIGURE
GAC ASP	Ala GC	110	8 8	G 3	700 Ser	STC Val	A8 68	GÁC Asp	Arg Arg
8 gg	S €	Ser Ser	§ ₹	§ 88	CE CE	85	Aa G	25 25 26	TAC
5 S	8 8 8		AGC Ser	A G	Aa A	Asp GAC	E 5	Ser Ser	Lys
TCT Ser	3 €		<u>۽</u> ع	8 8	AAC Asn	GTG Val	4 PG	8 8 8 8	3er 3
	F P	ATG Met	As de	GTG Val	85	Arg A	CTG Val	. CAC	# ¥
STG Val	AAG	Arg Agg		AAG Lys		E CI	CTG Leu	GTG Val	E 3
-	94	16	136	181	226	172	316	361	408

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INDRESES AND AND A

Beta globin sequence:

4 ro	06	135	180	225	270	315	360	405	
5 E	Arg Agg	音	org Val	E 3	8 8	5 2 3	AAA Lys	GCT Ala	
E 5	S €	Ser	AAG Lys	9 8 €	AGT Ser	Acg Arg	9 8 €	GTG Val	
Se go	CTG Lee	96 Gle	ಕ್ಷಿ ಕ್ಷ	GAT Asp	CTG Fee	Fre Pre	FF af	GTG Val	
ACT Thr	8 8	E	AAC Asn	AGT Ser	A F	Asn Asn	E SC	Lys A	
Cal la	96 gg	F 등	36 G€	E &	8 8 8	8 8	CAT	8 8 8	CAC His
% 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	GGT Gly	Arg Arg	ATG Met	8 8 ₽	ΕÆ	P 5	8 8 8	TAT Tyr	TAT Tyr
Ser	GGT Gly	85 E	Val a	GGT Gly	¥ SG	GAT Asp	E E	gg ₽	AAG Lys
AAG '	Val GH	₹ \$	Ala Ala	55 mg	9 ∂	GTG	GTG Val	GCT Ala	કુ કુ ક
GPG GPG	8 €	150 T	GAT	ong Val	AAG Lys	CAC	7 5 \$	8 g	Aa GC
Sie Ge	GAT Asp	P 5	P of	Lys A	5 E E	5 F	GTC Val	GTG Val	E CT
P oct	Val	TAC	ACT T⊯	AAG	AAC	AAG Lys	5 E 3	8 8 8	S S
ACT The	AAC Asn	CTC Val	Ser Ser	8 8	A G	As GAC	GTG Val	8 8	AAT
15 S	Val	CTT Na	E 23	CAT ∰	5 <u>3</u>	1 61 2∕3	ASI ASI	를 AG	Ala Ala
S €		E 3	GAT Asp	Ala GCT	Ş ₹		9 8		Sal Sal
Cal			99 5	Lys AG		55 Fe E	5 2		GGT Gly
-	6	_	36	8	26	17:	9	198	406

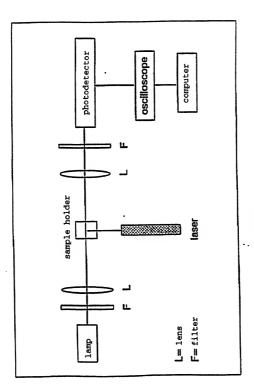
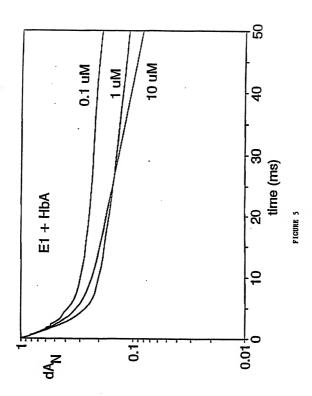
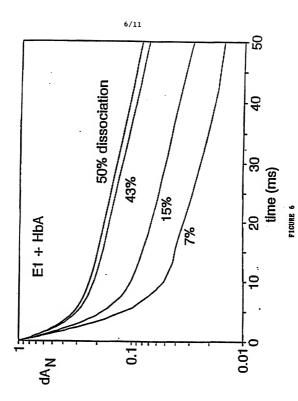


FIGURE 4





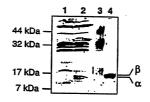


FIGURE 7

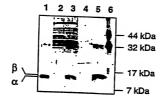


FIGURE 8

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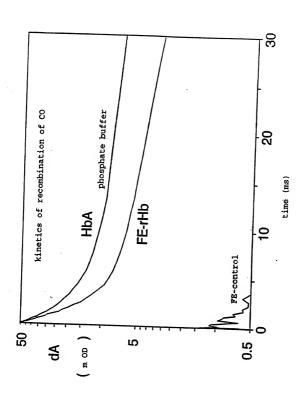


FIGURE 9

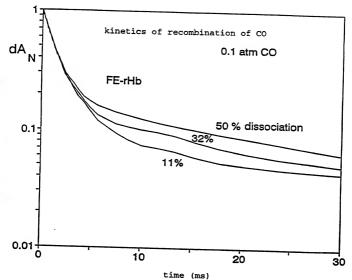


FIGURE 10

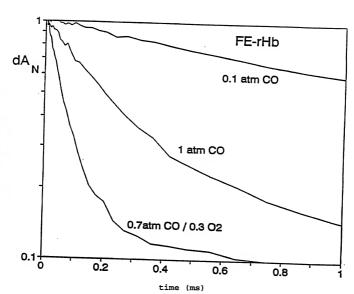


FIGURE 11